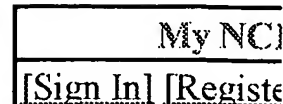
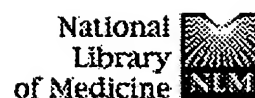


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L2	1	l1 near6 (metalloprotease or metalloproteinase)	USPAT	OR	OFF	2005/05/19 14:59



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PMID: 15739652 [PubMed - indexed for MEDLINE]

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PMID: 15656460 [PubMed - indexed for MEDLINE]

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Adv Skin Wound Care. 2004 Mar;17(2):66-75; quiz 76-8. Review.
PMID: 15021091 [PubMed - indexed for MEDLINE]


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 Matrix metalloproteinase-19 expression in dermal wounds and by fibroblasts in culture.
J Invest Dermatol. 2003 Nov;121(5):997-1004.
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Surg Endosc. 2004 Feb;18(2):211-20. Epub 2003 Dec 29.
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Br J Community Nurs. 2003;8(9 Suppl):suppl 4-9. Review.
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Exp Cell Res. 2003 Feb 1;283(1):22-35.
PMID: 12565817 [PubMed - indexed for MEDLINE]


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-  Deletion of the homeobox gene PRX-2 affects fetal but not adult fibroblast wound healing responses.
J Invest Dermatol. 2003 Jan;120(1):135-44.
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Ann Med. 2002;34(6):419-27. Review.
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Wound Repair Regen. 2002 Sep-Oct;10(5):295-301.

PMID: 12406165 [PubMed - indexed for MEDLINE]

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The role of oxidised regenerated cellulose/collagen in chronic wound repair and its potential mechanism of action.

Int J Biochem Cell Biol. 2002 Dec;34(12):1544-56.

PMID: 12379277 [PubMed - indexed for MEDLINE]

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or detected or analysis or analyze or test or tested or testing)
3 FILES SEARCHED...

L2 1676 (METALLOPROTEASE OR METALLOPROTEINASE) (4A) (DETECT OR
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OR DETECTED OR ANALYSIS OR ANALYZE OR TEST OR TESTED
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L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:492550 CAPLUS
DN 139:65381
TI Immunosensors for detection of proteinase in the active and
proenzyme form
in chronic wounds of humans and animals and diagnostic
applications
IN Quirk, Stephen; Tyrrell, David John
PA USA
SO U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO

DT Patent
LA English

FAN.CNT 1

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
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PI	US 2003119073	A1	20030626	US 2001-26393
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	WO 2003058237	A1	20030717	WO 2002-US36297
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FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF,
BJ, CF,

CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2001-26393 A 20011221

AB Sensors for detecting catabolic proteinase enzymes and
proenzymes in the

fluid of a human or animal and methods for detecting the enzymes
and then

providing treatment that is specific for the detected enzyme are
disclosed. The sensor comprises a sample reservoir in fluid
communication

with at least one reaction site and a collection area. A signal
element

and a target antibody bindable to a specific portion of a target
proteinase are disposed within the sample reservoir. The
sensors of the

present invention can be used to detect catabolic proteinase
enzymes and

proenzymes in the fluid of chronic wounds of humans and animals.

Upon
detection of any proteinase enzyme, the wound can be treated
with an

inhibiting complex that is specific for the detected enzyme or
proenzyme.

Enzymes such as matrix metalloproteinases and human neutrophil
elastase in

the active and proenzyme form can be detected and treatment
provided with

inhibitors for the detected enzyme.

L4 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson
Corporation on STN

AN 2001:442190 BIOSIS

DN PREV200100442190

TI **Analysis** of the matrix **metalloproteinase** profile in
different **chronic wounds** after surgical debridement.

AU Riordan, C. [Reprint author]; Bennett, L. [Reprint author];
Zahir, K.

[Reprint author]; Nanney, L. [Reprint author]

CS Department of Plastic Surgery and Cell Biology, Vanderbilt
Medical Center,
Nashville, TN, USA

SO Wound Repair and Regeneration, (March-April, 2001) Vol. 9, No.
2, pp. 156.

print.

Meeting Info.: Eleventh Annual Meeting and Educational Symposium
Wound

Healing Society. Albuquerque, New Mexico, USA. May 16-18, 2001.

Wound

Healing Society.

ISSN: 1067-1927.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 19 Sep 2001
Last Updated on STN: 22 Feb 2002

L4 ANSWER 3 OF 4 MEDLINE on STN DUPLICATE 1

AN 1998374157 MEDLINE

DN PubMed ID: 9710383

TI Patterns of matrix metalloproteinase and TIMP expression in chronic ulcers.

AU Saarialho-Kere U K

CS Department of Dermatology, Helsinki University Central Hospital, Finland..
ulpu.saarialho-kere@helsinki.fi

SO Archives of dermatological research, (1998 Jul) 290 Suppl S47-54. Ref: 42
Journal code: 8000462. ISSN: 0340-3696.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199810

ED Entered STN: 19981020
Last Updated on STN: 20000303
Entered Medline: 19981005

AB Controlled proteolysis is needed for cell migration, angiogenesis, and matrix remodeling during normal wound repair. Our objective has been to investigate how chronic leg ulcers differ from normally healing wounds (pinch graft donor sites) with respect to their metalloproteinase expression patterns. Using in situ hybridization and immunohistochemistry, we found that collagenase-1 (MMP-1), stromelysin-1 (MMP-3) and stromelysin-2 (MMP-10) were expressed in keratinocytes bordering both acute and chronic wounds. Unlike MMP-1, signal for collagenase-3 (MMP-13) was not detected in keratinocytes but exclusively in fibroblasts deep in the ulcer bed of chronic wounds, suggesting that while MMP-1 production is important for migration, MMP-13 plays a role in matrix remodeling. Tissue inhibitor of metalloproteinase (TIMP)-1 was not detected in the epidermis of any chronic wound sample while it was expressed in keratinocytes bordering normally healing wounds. TIMP-3 was abundantly

expressed in stromal fibroblast- and macrophage-like cells surrounding vessels and sweat glands in both types of wounds. Our results suggest that there are no qualitative differences in the expression of MMPs-1, -3 and -10 in the epidermis of chronic vs normally healing wounds. However, the number of stromal cells expressing MMP-1 and MMP-3 was greater in chronic vs acute wounds, whereas MMP-10 was never detected in the dermis. TIMP-1 expression near the basement membrane in acute, but not in chronic, wounds suggests that the balance between MMPs and their inhibitors may be altered in poorly healing wounds. Analogous to chronic cutaneous wounds, MMP-1 and -3 are abundantly expressed in chronic small and large bowel ulcers, while the migrating surface epithelium is negative for TIMP-1 expression.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:551112 CAPLUS
DN 129:288358
TI Epidermal growth factor in wound healing: a model for the molecular pathogenesis of chronic wounds
AU Tarnuzzer, Roy W.; Macauley, Shawn P.; Mast, Bruce A.; Gibson, Jane S.; Stacey, Michael C.; Trengrove, Naomi; Moldawer, Lyle L.; Burslem, Frank; Schultz, Gregory S.
CS Inst. Wound Res., Dep. Obstetrics Gynecol., Univ. Florida, Gainesville, FL, USA
SO Growth Factors and Wound Healing: Basic Science and Potential Clinical Applications, [Proceedings of the International Symposium on Growth Factors and Wound Healing: Basic Science and Potential Clinical Applications], Boston, Sept. 28-Oct. 1, 1995 (1997), Meeting Date 1995, 206-228. Editor(s): Ziegler, Thomas R.; Pierce, Glenn F.; Herndon, David N.
Publisher: Springer, New York, N. Y.
CODEN: 66NNAI
DT Conference; General Review
LA English
AB A review, with 58 refs. Topics discussed include: general background of

skin wound healing and chronic wound pathophysiol., the role of
 endogenous
 EGF family proteins in wound healing, the effects of exogenously
 applied
 EGF family proteins in wound healing, biochem. differences in
 environments
 of healing and chronic wounds, proteinase and inhibitor levels,
 the
 azocoll assay of various wound fluids, gelatin and casein zymog.
 of
 various wound fluids, quant. RT-PCR **anal.** of matrix
metalloproteinases and TIMP species of **chronic**
wound biopsies, growth factor degradation, growth factor receptor
 degradation, biol. effects of acute and chronic wound fluids on
 wound cells,
 and future concepts for the treatment of chronic wounds.
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